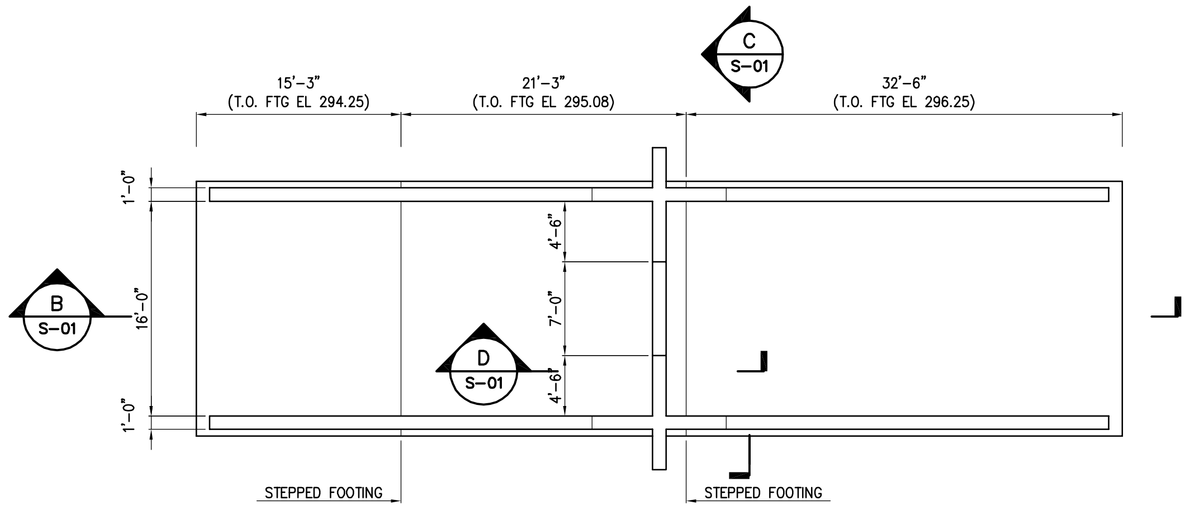
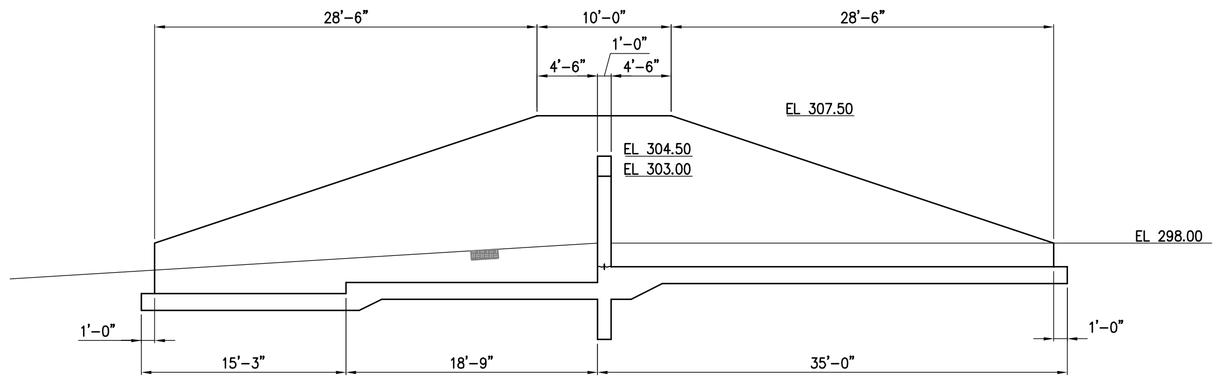
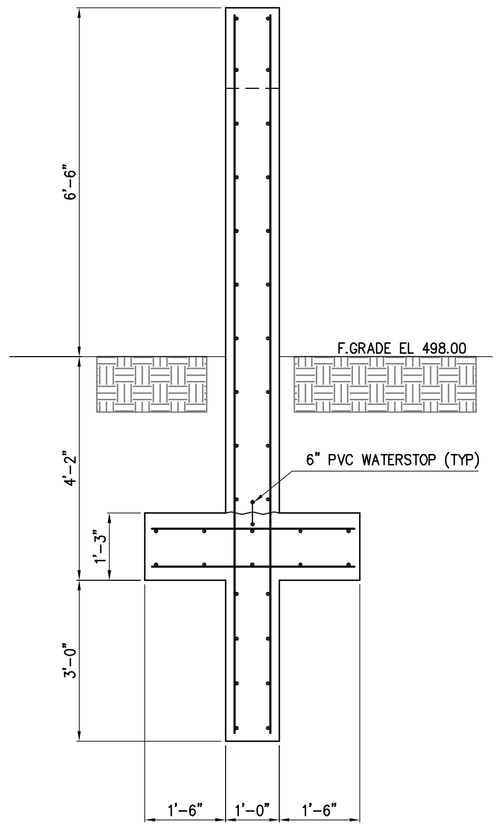


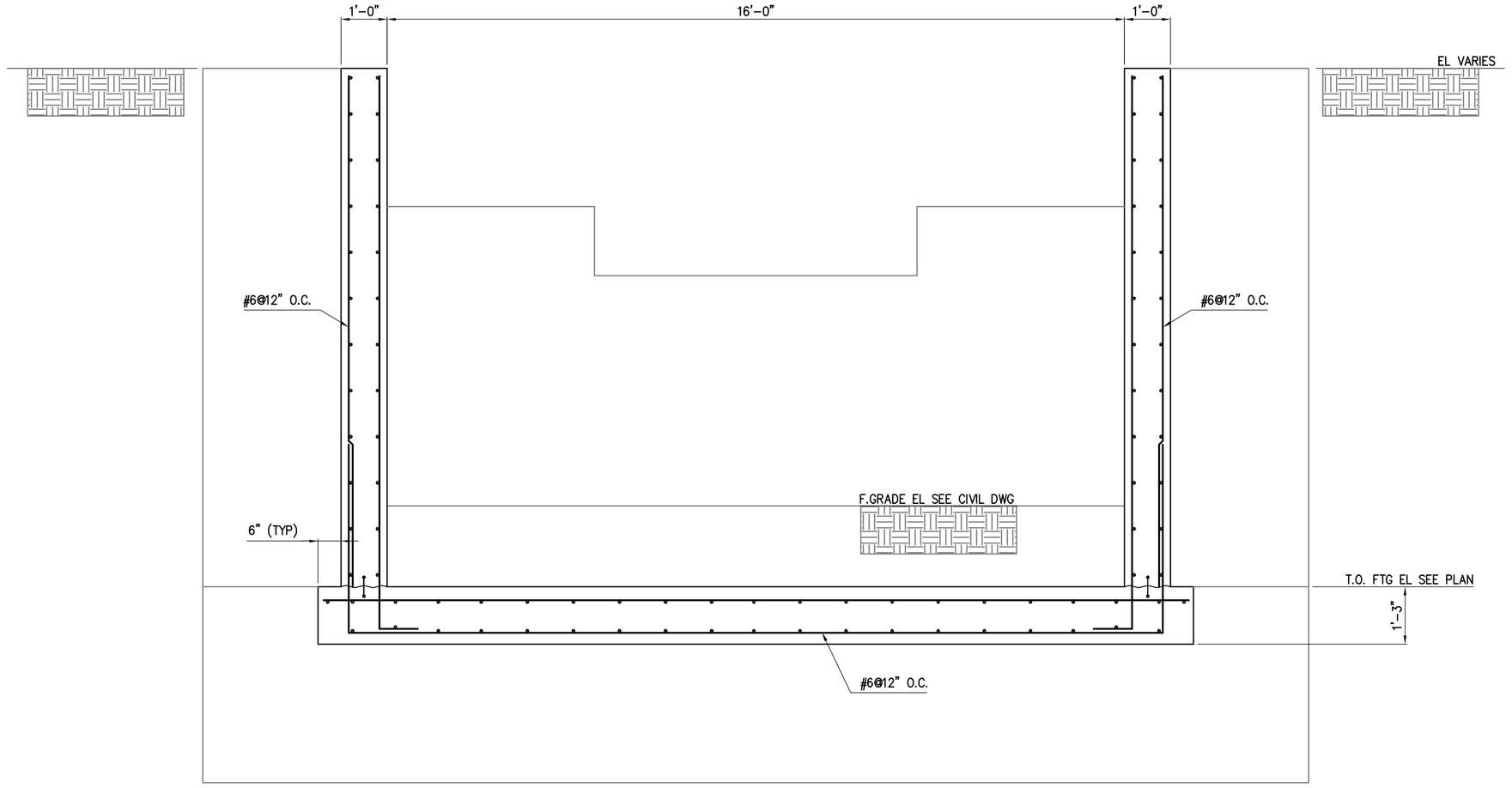
A PLAN
SCALE: 1/8" = 1'-0"



B SECTION
SCALE: 1/8" = 1'-0"

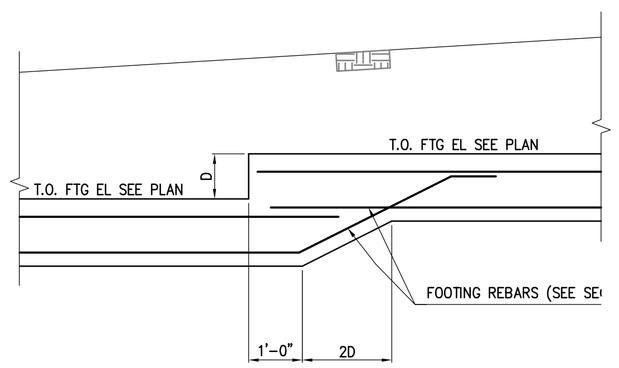


D SECTION
SCALE: 1/2" = 1'-0"



C SECTION
SCALE: 1/2" = 1'-0"

NOTE: UNLESS NOTED OTHERWISE ALL BARS ARE #5@12" O.C.



E TYPICAL STEPPED FOOTING DETAIL
SCALE: 1/2" = 1'-0"

STRUCTURAL NOTES:

A. GENERAL

1. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL DIMENSIONS INCIDENT TO THE WORK. ALL DIMENSIONS SHALL BE COORDINATED PRIOR TO PROCEEDING WITH LAYOUT, CONSTRUCTION OR FABRICATION. THE CONTRACTOR SHALL NOTIFY IMMEDIATELY THE ENGINEER OF ANY DIMENSIONAL DISCREPANCIES.
2. THE STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE DRAWINGS OF ALL OTHER DISCIPLINES AND THE SPECIFICATIONS. THE CONTRACTOR SHALL VERIFY THE REQUIREMENTS OF OTHER TRADES AS TO SLEEVES, CHASES, HANGERS, INSERTS, ANCHORS, HOLES AND OTHER ITEMS TO BE PLACED OR SET IN THE STRUCTURAL WORK.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH ALL SAFETY PRECAUTIONS AND REGULATIONS DURING THE WORK. THE ENGINEER WILL NOT ADVISE OR NOR ISSUE DIRECTIONS AS TO SAFETY PRECAUTIONS AND PROGRAMS.
4. THE CONTRACTOR SHALL REFER TO THE SOIL REPORT IN THE PROJECT SPECIFICATIONS FOR ALL REQUIREMENTS RELATIVE TO SITE PREPARATION, EARTHWORK, ETC..

B. CODES

1. INTERNATIONAL BUILDING CODE 2009.
2. APPLICABLE CODES OF LOUNDOUN COUNTY, VIRGINIA.
3. AISC MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES ASCE 7-05.
4. BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE ACI 318.
5. SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS, ACI 301.

C. CAST IN PLACE CONCRETE

3. UNLESS NOTED OTHERWISE, ALL CAST IN PLACE CONCRETE SHALL BE AIR ENTRAINED WITH A MAXIMUM SLUMP OF 4 INCHES. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE LATEST AMERICAN CONCRETE INSTITUTE ACI 318 AND ACI 301.
CONCRETE SHALL ATTAIN A MINIMUM 28 DAY STRENGTH OF 4000 PSI.
4. ALL REINFORCING STEEL FOR CONCRETE SHALL CONFORM TO ASTM SPECIFICATIONS A 615, GRADE 60 FOR BARS AND A 185 FOR WELDED WIRE FABRIC. REINFORCING DETAILS SHALL BE IN ACCORDANCE WITH CURRENT ACI "MANUAL OF STANDARD PRACTICES FOR DETAILING REINFORCED CONCRETE STRUCTURES". BAR LAPS SHALL BE CLASS "B" TENSION LAPS. PROVIDE CONCRETE COVER OVER REINFORCING BARS IN ACCORDANCE WITH ACI 318. HOOKS SHOWN SHALL BE STANDARD HOOKS UNLESS OTHERWISE DIMENSIONED.
5. UNLESS SHOWN OTHERWISE, THE FOLLOWING CONCRETE COVER SHALL BE PROVIDED FOR REINFORCEMENT:

a.	CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	3 IN.
b.	CONCRETE EXPOSED TO EARTH OR WEATHER	
1.	NO. 6 THROUGH NO. 18	2 IN.
2.	NO. 5 AND SMALLER	1 1/2 IN.

D. FOUNDATIONS

1. ALL SUBGRADE & FOOTING EXCAVATIONS SHALL BE PREPARED ACCORDING TO RECOMMENDATIONS STATED IN THE GEOTECHNICAL REPORT BY ECS MID-ATLANTIC, LLC DATED DEC 1, 2010 REVISED MARCH 3, 2011.
2. PROVIDE A MINIMUM NET ALLOWABLE BEARING CAPACITY OF 3000 PSF BELOW ALL THE FOOTINGS AND TO A DISTANCE OUTSIDE THEIR PERIMETER SO AS TO ENSURE PROPER FOUNDATION PERFORMANCE AS VERIFIED BY THE GEOTECHNICAL ENGINEER.
3. ALL SUBGRADE, FOOTING EXCAVATIONS, COMPACTED FILL AND BACKFILL SHALL BE INSPECTED AND TESTED BY A GEOTECHNICAL ENGINEER REGISTERED AS A PROFESSIONAL ENGINEER IN THE COMMONWEALTH OF VIRGINIA TO VERIFY CONFORMANCE WITH THE RECOMMENDATIONS HEREIN.

NOTE:

SEE CIVIL DRAWING FOR LOCATION OF RETAING WALL.

NO.	DATE	DESCRIPTION	BY

COMMONWEALTH OF VIRGINIA
IRAJ GOLSHAN
Lic. No. 018180
4/7/2011
PROFESSIONAL ENGINEER

Dewberry
Dewberry & Davis LLC
1500 Edwards Ferry Road, NE
Suite 200 Leesburg, VA 20176
Phone 703.771.8004 Metro 703.478.1335 Fax 703.771.4091
www.dewberry.com

LOUDOUN COUNTY TRANSIT OPERATIONS & MAINTENANCE FACILITY
RETAINING WALL DETAILS
Loudoun County, Virginia
Catoctin Election District

Plan Number	
Designed By	CHN
Checked By	IG
Approved By	IG
Date	DEC. 22, 2010
Scale	
Sheet	Of
File Number	SP-311-LC

Plotted: Apr 07, 2011 at 4:54pm
S:\P\BLDG\LOUDOUN TRANSIT SWM\S-1.dwg